

Message Text

UNCLASSIFIED

PAGE 01 NEW DE 07401 251104 Z

15

ACTION SCI-06

INFO OCT-01 NEA-10 ADP-00 EUR-25 SCEM-02 EB-11 INT-08

AEC-11 RSR-01 CIAE-00 INR-10 NSAE-00 RSC-01 /086 W

----- 041760

R 250815 Z JUN 73

FM AMEMBASSY NEW DELHI

TO SECSTATE WASHDC 5160

UNCLAS NEW DELHI 7401

E. O. 11652: N/ A

TAGS: ENRG IN

SUBJECT: FAILURE OF FIVE 120 MW RUSSIAN TURBINES

FOLLOWING SENT ACTION NEW DELHI FROM BOMBAY JUNE 22

REPEATED FOR YOUR ACTION

QUOTE

BOMBAY 1242

E. O. 11652: N/ A

TAGS: ENRG, IN

SUBJECT: FAILURE OF FIVE 120 MW RUSSIAN TURBINES

1. RUNNER BLADES OF ALL FIVE 120 MW TURBINES SUPPLIED BY RUSSIAN FIRM REVEALED "SERIOUS THROUGH CRACKS AND NUMEROUS SURFACE CRACKS" ACCORDING TO JUNE 21 ECONOMIC TIMES REPORT. AT 43 RD ANNUAL RESEARCH SESSION OF THE CENTRAL BOARD OF IRRIGATION AND POWER, BHAKRA POWER HOUSE EXECUTIVE ENGINEER M. L. CHAWLA AND L. R. MALIK STATED THAT SOME CRACKS IN THE 4.1 METRE DIAMETER BLADES WERE 80 CENTIMETERS LONG AND WERE NOTED EVEN IN THE FIRST INSPECTION AFTER COMMISSIONING. THE CAUSE OF SEVERE DAMAGE TO RUNNER BLADES WAS SAID TO BE PERHAPS DUE TO "EXCESSIVE VIBRATIONS DUE TO RESONANCE". AFTER STUDY BY STAFF AND ADVISORS, INCLUDING THOSE FROM SOVIET MANUFACTURERS, THE TRAILING EDGES OF THE RUNNER BLADES IN ALL TURBINES WERE ROUNDED OFF. CRACKS IN UNITS

UNCLASSIFIED

UNCLASSIFIED

PAGE 02 NEW DE 07401 251104 Z

SO MODIFIED " HAD VIRTUALLY DISAPPEARED". SOVIET MANUFACTURERS
ARE REPORTED TO HAVE INITIALLY ATTRIBUTED THE DAMAGE TO
" THE OPERATION OF THE UNITS BEYOND THE NORMAL OPERATING
CONSTRAINTS".

2. USAEC SCI REP REQUESTS TEXT OF CABLE BE SENT TO DR.
A. S. FRIEDMAN, DIRECTOR, DIP, USAEC, GERMANTOWN.
SIGNED BANE

UNQUOTESCHNEIDER

UNCLASSIFIED

NNNNMAFVVZCZ

*** Current Handling Restrictions *** n/a

*** Current Classification *** UNCLASSIFIED

Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: n/a
Control Number: n/a
Copy: SINGLE
Draft Date: 25 JUN 1973
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Authority: n/a
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 JAN 1960
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1973NEWDE07401
Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: n/a
Errors: n/a
Film Number: n/a
From: NEW DELHI
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1973/newtext/t19730633/aaaajthr.tel
Line Count: 76
Locator: TEXT ON-LINE
Office: ACTION SCI
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 2
Previous Channel Indicators:
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: n/a
Review Action: RELEASED, APPROVED
Review Authority: shawdg
Review Comment: n/a
Review Content Flags:
Review Date: 16 OCT 2001
Review Event:
Review Exemptions: n/a
Review History: RELEASED <16-Oct-2001 by phillir0>; APPROVED <07 FEB 2002 by shawdg>
Review Markings:

Declassified/Released
US Department of State
EO Systematic Review
30 JUN 2005

Review Media Identifier:
Review Referrals: n/a
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
Secure: OPEN
Status: <DBA CORRECTED> wfs 980304
Subject: FAILURE OF FIVE 120 MW RUSSIAN TURBINES FOLLOWING SENT ACTION NEW DELHI FROM BOMBAY JUNE 22 REPEATED FOR YOUR ACTION QUOTE BOMBAY 1242 E. O. 11652: N/ A TAGS: ENRG, IN SUBJECT: FAILURE OF FIVE 120 MWFAILURE OF FIVE 120 MW RUSSI
AN TURBINES FOLLOWING SENT A
TAGS: ENRG, IN
To: SCI
SECSTATE WASHDC
Type: TE
Markings: Declassified/Released US Department of State EO Systematic Review 30 JUN 2005